## From the INTERNATIONAL SEARCHING AUTHORITY

MANI ADELI STATTLER JOHANSEN & ADELI LLP

NOTIFICATION OF TRANSMITTAL OF

1875 CENTURY PARK EAST, SUITE 1050 LOS ANGELES, CA 90067	THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 140CT 2005
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
STAN.P0009PC International application No.	International filing date (day/month/year) 21 October 2004 (21.10.2004)
PCT/US04/35014  Applicant THE BOARD OF TRUSTEES OF THE LELAND STANFORD	JUNIOR UNIVERSITY
The applicant is hereby notified that the international sea have been established and are transmitted herewith.	rch report and the written opinion of the International Scarching Authority
Filing of amendments and statement under Article 19	annis of the second
When? The time limit for filing such amendments is search report.	s normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIP 1211 Geneva 20, Switzerland, Facsimile No	O, 34 chemin des Colombettes o.: (41-22) 338.82.70.
For more detailed instructions, see the notes on the	accompanying sheet.
2. The applicant is hereby notified that no international sea	rch report will be established and that the declaration under the International Scarching Authority are transmitted herewith.
With regard to the protest against payment of (an) ad	ditional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has be request to forward the texts of both the protest and	peen transmitted to the International Bureau together with the applicant's
no decision has been made yet on the protest; the a	applicant will be notified as soon as a decision is made.
Bureau. If the applicant wishes to avoid or positione publicand claim, must reach the International Bureau as provided in Rule	late, the international application will be published by the International n, a notice of withdrawal of the international application, or of the priority s 90bis.1 and 90bis.3, respectively, before the completion of the technical
The applicant may submit comments on an informal basis International Bureau. The International Bureau will send a c preliminary examination report has been or is to be established.	on the written opinion of the International Searching Authority to the opy of such comments to all designated Offices unless an international ed. These comments would also be made available to the public but not
Within 19 months from the priority date, but only in responsion to the samination must be filed if the applicant wishes to postpone to some Offices even later); otherwise, the applicant must, within the same that the same designated Offices.	the entry into the national phase until 30 months from the priority date (in n 20 months from the priority date, perform the prescribed acts for entry
and the state of 30 man	ths (or later) will apply even if no demand is filed within 19 months.
See the Annex to Form PCT/IB/301 and, for details about th	e applicable time limits, Office by Office, see the PCT Applicant's Guide,

Name and mailing address of the ISA/ US

Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230

Volume II, National Chapters and the WIPO Internet site.

Telephone No. 571-272-3700

Authorized officer

Ali Imam

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

### PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	sec Fo	orm PCT/ISA/220 c applicable, item 5 below.
STAN.P0009PC International application No.	ACTION  International filing date (da	y/month/year)	(Earliest) Priority Date (day/month/year) 21 October 2003 (21.10.2003)
PCT/US04/35014	21 October 2004 (21.10.200	)4)	ZI October 2003 (Ziiiolada)
Applicant THE BOARD OF TRUSTEES OF THE LI	ELAND STANFORD JUNIO	R UNIVERSITY	·
This international search report has been according to Article 18. A copy is being  This international search report consists  It is also accompanied  1. Basis of the Report  a. With regard to the language, the of a translation of the international at a translation of the language of the international at a translation of the language of the international at a translation of the language of the international at a translation of the language of the language of the international at a translation of the language of the langu	prepared by this Internation transmitted to the Internation of a total ofk sheets. I by a copy of each prior art application in the language is the international application is furnished for the purposes of ide and/or amino acid sequenced unsearchable (See Box No. III)	al Searching Autonal Bureau.  document cited in ried out on the ban which it was fill noto international searcence disclosed in the cited in the cit	ed.
may, within one month fro		), by this Authorit international sea	ty as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.
as selected by th		icant failed to sug tre better characte	ggest a figure. crizes the invention.

Form PCT/ISA/210 (first sheet) (April 2005)

### INTERNATIONAL SEARCH REPORT

PCT/US04/35014

## Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The abstract is too long (PCT Rule 8.1(b)). The abstract must be less than 150 words, or 200 words when no figure is to be published.

### NEW ABSTRACT

Systems and methods are disclosed for assisting a user in guiding a medical instrument to a subsurface target site in a patient by indicating a spatial feature of a patient target site on an intraoperative image (e.g., endoscopic image), determining 3-D coordinates of the patient target site spatial feature in a reference coordinate system using the spatial feature of the target site indicated on the intraoperative image (e.g., ultrasound image, determining a position of the instrument in the reference coordinate system, projecting onto a display device a view field from a predetermined position relative to the instrument in the reference coordinate system, and projecting onto the view field an indicia of the spatial feature of the target site corresponding to the predetermined position.

Form PCT/ISA/210 (continuation of first sheet(3)) (April 2005)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35014

A. CLASSIFICATION OF SUBJECT MATTER		
A. CLASSIFICATION OF SUBJECT THE TEXT IPC(7) : A61B 8/00		
US CL: 600/424  According to International Patent Classification (IPC) or to both nation	nal classification and IPC	
THE PART OF THE PA		
B. FIELDS SEARCHED	classification symbols)	
Minimum documentation searched (classification system followed by U.S.: 600/407-424		
	domments are included i	n the fields searched
Documentation searched other than minimum documentation to the ex	stent that such documents are included.	
Electronic data base consulted during the international search (name	of data base and, where practicable, scar	rch terms used)
Please See Continuation Sheet		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
Ciestian of document with indication, where app	propriate, of the relevant passages	1-6
Category * Citation of document, War and Category * US 2003/0011624 A1 (ELLIS) 16 January 2003 (16.01	1.2003), entire document.	1-0
A, P US 2004/0097806 A1 (HUNTER et al) 20 May 2004 (		1-6
		}
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Further documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:	"T" later document published after the inte and not in conflict with the application	mational filing date or priority date
"A" document defining the general state of the art which is not considered to be of	principle or theory underlying the inve	ntion
particular relevance	"X" document of particular relevance; the considered novel or cannot be considered.	claimed invention cannot be red to involve an inventive step
"E" earlier application or patent published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone	claimed invention cannot be
establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive ste with one or more other such document to a person skilled in the art	n when the document is continued
"O" document referring to an oral disclosure, use, exhibition or other means	·	C
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent	
Date of the actual completion of the international search	Date of mailing of the international second	aren repert
17 September 2005 (17.09.2005)	Authorized officer	
Name and mailing address of the ISA/US		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Ali Imam	
P.O. Box 1450 Alexandria, Virginia 223 13-1450	Telephone No. 571-272-3700	
Facsimile No. (703) 305-3230		

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT	PCT/US04/35014
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	·
Continuation of B. FIELDS SEARCHED Item 3:	
EAST search terms: guide, medical, instrument, stereotactic, determining, position, refer	rence coordinate system, indicia, orientation
search terms. garde, medical, management	
·	

Form PCT/ISA/210 (extra sheet) (April 2005)

## INTERNATIONAL SEARCHING AUTHORITY

To: MANI ADELI STATTLER JOHANSEN & ADELI LLP 1875 CENTURY PARK EAST, SUITE 1050

## **PCT**

# WRITTEN OPINION OF THE

LOS ANGELES, CA 90067		INTERNATIO	ONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
·		Date of mailing (day/month/year)	1 4 00T 2005
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below
STAN.P0009PC			Priority date (day/month/year)
International application No.	International filing	date (day/month/year)	
PCT/US04/35014	21 October 2004 (2	1.10.2004)	21 October 2003 (21.10.2003)
International Patent Classification (II	C) or both national class	ification and IPC	
IPC(7): A61B 8/00 and US Cl.: 600/	424		
Applicant		or and the state of the state o	37
THE BOARD OF TRUSTEES OF T	HE LELAND STANFO	RD JUNIOR UNIVERSIT	Y
1. This opinion contains indication	s relating to the followin	g items:	
Box No. I Basis o	of the opinion		
Box No. II Priorit			
Box No. III Non-c	stablishment of opinion v	vith regard to novelty, inve	ntive step and industrial applicability
	of unity of invention		
Box No. V Reaso applic	ned statement under Rule ability; citations and exp	43bis.1(a)(i) with regard t anations supporting such s	o novelty, inventive step or industrial statement
	n documents cited		
Box No. VII Certai	n defects in the internation	nal application	·
	n observations on the int		
International Preliminary Exa Authority other than this one that written opinions of this Int	o be the IPEA and the cernational Scarching Aut	hosen IPEA has notified the hority will not be so consider	
iPEA a written reply together, of Form PCT/ISA/220 or before	re the expiration of 22 m	a written opinion of the amendments, before the e onths from the priority date	IPEA, the applicant is invited to submit to the expiration of 3 months from the date of mailing e, whichever expires later.
For further options, see Form l	PCT/ISA/220.		
3. For further details, see notes to	Form PCT/ISA/220.		
Name and mailing address of the I	SA/US Date of	completion of this opinion	Authorized officer
Mail Stop PCT, Attn: ISA/U Commissioner for Patents	E	ember 2005 (17.09.2005)	Ali Imam June / Mily Il
P.O. Box 1450 Alexandria, Virginia 22313-	1450		Telephone No. 571-272-3700

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (April 2005)

# INTERNATIONAL SEARCHING AUTHORITY

PCT/US04/35014

Box No	o. I Basis of this opinion
	and the same of
1. With r	egard to the language, this opinion has been established on the basis of:
$\boxtimes$	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Add	itional comments:
	·

Form PCT/ISA/237(Box No. I) (April 2005)

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

PU 1/U304/33014

	nations supporting such statement	tive step or industrial
Statement	Claims 1-6	YES
Novelty (N)	Claims 1-6 Claims NONE	
	Claims NONE	
- (10)	Claims 1-6	YES
Inventive step (IS)	Claims NONE	
		2.500.6
Industrial applicability (IA)	Claims 1-6	
	Claims NONE	INO
Laims 1-6 meet the criteria set out in PCT Article 3 computer readable medium that stores computer produced from the production of a patient set on the production of a patient that sound image, determining coordinates of the production of a reference coordinate system, determining strument in the reference coordinate system, determined redetermined position, and optionally orientation in the reference coordinate system, and projecting of the reference coordinate system, and projecting the spatial ferom or the production of the predetermined position, and options of the predetermined position of the pre	di image from the patient; arget site on the atient target site spatial ag a position of the ting a view field from a relative to the instrument onto the view field an ature of the target site	t site within a
Claims 1-6 meet the criteria set out in PCT Article be made or used in industry.	33(4), and thus meet industrial applicability becar	use the subject matter claimed can
Claims 1-6 meet the criteria set out in PCT Article e made or used in industry.	33(4), and thus meet industrial applicability becar	use the subject matter claimed can

Form PCT/ISA/237 (Box No. V) (April 2005)

### NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to Sile the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims. Its adding one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.